$$\mathbb{E}_{\{\}\to\{i\}}\left[-\hbar\, a_i\, b_i,\ -\frac{\hbar\, x_i\, y_i}{B_i},\right.$$

$$1+\left(\frac{\hbar^2\, x_i\, y_i}{B_i}-\frac{\hbar^2\, a_i\, x_i\, y_i}{B_i}-\frac{3\,\hbar^3\, x_i^2\, y_i^2}{4\, B_i^2}\right)\in+\left(-\frac{\hbar^3\, x_i\, y_i}{2\, B_i}+\frac{\hbar^3\, a_i\, x_i\, y_i}{B_i}-\frac{\hbar^3\, a_i^2\, x_i\, y_i}{2\, B_i}+\frac{5\,\hbar^4\, x_i^2\, y_i^2}{2\, B_i^2}-\right.$$

$$\left.\left.\frac{5\,\hbar^4\, a_i\, x_i^2\, y_i^2}{2\, B_i^2}+\frac{\hbar^4\, a_i^2\, x_i^2\, y_i^2}{2\, B_i^2}-\frac{67\,\hbar^5\, x_i^3\, y_i^3}{36\, B_i^3}+\frac{3\,\hbar^5\, a_i\, x_i^3\, y_i^3}{4\, B_i^3}+\frac{9\,\hbar^6\, x_i^4\, y_i^4}{32\, B_i^4}\right)\in^2+O[\in]^3\right]$$